

CLAIMS

1. Packaging blister foil with a blister label for use in packaging of drugs, for example in tablet, capsule or pill form, where each drug dose is packaged in separate blisters provided in the packaging blister foil and closed off by the blister label, and that said label is rupturable, at least in zones corresponding to the blisters, and that for each drug dose there is provided an electrical connection means having a certain resistance value where said means is extending across each rupturable zone such that when the label is ruptured the electrical connection means will break, characterized in that each electrical connection means is connected in either end to a first and second lead in parallel electrical connection, and that at least two contact islands are provided at terminal ends of the first and second lead, adjacent an edge of the blister label.
2. Packaging blister foil with a blister label according to claim 1, characterized in that a second set of contact islands are provided in the opposite end to the first contact islands of said first and second leads, whereby a redundancy measurement may be conducted.
3. Packaging blister foil with a blister label according to claim 1 or 2, characterized in that a reference resistor is integral with one of the first or second leads.
4. Packaging blister foil with a blister label according to any of claims 1 to 3, characterized in that a second set of electrical connection means corresponding to a second row of drug doses arranged on said blister label is provided, and that said second set of electrical connection means are connected in parallel in a first end of said connection means to the first or second lead and in a second end of said electrical connection means to a third lead, and that said third lead is provided with at least a contact island adjacent the contact islands of the first and second leads, adjacent an edge of the blister label.

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5. Packaging blister foil with a blister label according to any of the claims 1-4, characterized in that each connection extending across each rupturable zone consists of at least two substantially superposed separate secondary electrical leads separated by an insulating layer, and that each lead is connected to two contact islands.

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6. Packaging blister foil with a blister label according to claim 5, characterized in that the contact islands are arranged along one or more edges of the blister label.

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7. Packaging blister foil with a blister label according to any preceding claim, characterized in that the label is partly perforated along the outline of each rupturable zone.

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8. Packaging blister foil with a blister label according to any of claims 5-7, characterized in that each secondary electrical lead/connection means corresponds to a unique resistance value.

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9. Packaging blister foil with a blister label according to any preceding claim, characterized in that all leads share the same contact islands.

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10. Packaging blister foil with a blister label according to any preceding claim, characterized in that the primary and/or secondary electrical leads and/or electrical connection means are made of a conductive material with a substantial content of for example carbon and that a reference lead is provided outside a rupturable zone made of the same conductive material.

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11. Packaging blister foil with a blister label according to any of the preceding claims, characterized in that at least two contact islands are arranged asymmetrically on the label.

12. Packaging blister foil with a blister label according to any of the preceding claims, characterized in that data relating to any one or more of the following:

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drug user, drug type, drug identification, drug manufacturer, sequence of dispensing each dose, prescribing doctor or hospital may be stored on the label.

13. Method for registering the dispensing of a drug dose, where the dose in tablet, capsule, pill or like form is packaged in a packaging blister foil with a blister label according to any of claims 1 to 12, wherein said packaging blister foil with a blister label where said first and second primary electrical leads can be brought into electrical contact with a device, where said device comprises releasable holding means for the packaging blister foil with a blister label, contact points for electrical contact with a packaging blister foil with a blister label arranged in the device, a timer device, and a source of energy, and further that a current can be applied via the contact points and the primary leads to the electrical means extending across pocket, and means for registering the resistance in the electrical means and the leads, such that a change in resistance occurring when a drug dose is dispensed and thereby breaks an electrical means is registered and via an analogue to digital converter is transformed to a digital signal, where said signal will be registered, which break will be registered and reset the timer device as well as storing the time, when the electrical lead was broken in a storage means provided in the holding device for later read out or transmission via interface means provided in the holding device as well as computing means arranged to trigger the timer device, compute the input data, and facilitate output.

14. Method for registering the dispensing of a drug dose, where the dose in tablet capsule, pill or the like form is packaged in a packaging blister foil with a blister label according to any of claims 1 to 12, wherein a device, which device comprises holding means for detachably holding a packaging blister foil with a blister label, a timer device, where the holding means comprises electrical contact points and an energy source, such that for each contact island under the packaging blister foil with a blister label there is a corresponding contact point in the holding means, such that when the packaging blister foil with a blister label is correctly placed in the holding means an electrical circuit is established, and further such that when a drug dose is dispensed from the packaging blister foil with a blister label by pressing on a blister, such that the drug dose is forced through the rupturable blister label, the corresponding electrical lead for that blister pocket will be broken, which break will be registered and reset

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the timer device as well as storing the time, when the electrical lead was broken in a storage means provided in the holding device for later read out or transmission via interface means provided in the holding device as well as computing means arranged to trigger the timer device, compute the input data, and facilitate output.

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15. Device for storing and registering the dispensing of drug doses, where drug doses being packaged in a packaging blister foil with a blister label as defined in any of the claims 1-12, characterized in that the device comprises contact points, at least corresponding to contact islands provided on the label as well as holding means for holding said contact islands of the packaging blister foil with a blister label in electrical contact with the contact points, and that said contact points are connected to a computing means comprising an electrical timer system, output means in the form of a display and optionally an audible alarm, data storing means and a source of energy.

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16. Device according to claim 15, characterized in that the holding means comprises a first lockable member, which member can be brought from an open position in which a packaging blister foil with a blister label can be placed in the device to a closed position, where the member fixate the packaging blister foil with a blister label in relation to the device, and in particular in relation to the contact points, and optionally control switch means registering if the member is correctly engaged in its closed position.

17. Device according to claim 15, characterized in that means for inducing a current via the contact islands of a blister label and thereby across the electrical connection means is provided, and that said means further comprises a shunt resistor, and optionally a signal amplifier and an analogue/digital converter, such that the output for further processing is digital.

18. Device according to claim 15, 16 or 17, characterized in that the computing means generate output to the display indicating in the display simultaneously or by manipulating switches provided on the device, time elapsed from the last

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drug dispensed, real time, error messages, low energy level, and further optionally a visual and/or audible indicator/alarm.

5 19. Device according to any of the claims 15-18, characterized in that an interface means in the shape of a mobile flash card device, USB gate, infrared transmission means or a parallel or serial port means for communicating/transferring data to and from an outside device is provided.

10 20. Device according to claim 19, characterized in that the computing means can be reprogrammed via the interface means.

15 21. Device according to any of the claims 15-20, characterized in that the computing means comprises data relating to any one or a combination of the following: drug user, drug type, drug identification, drug manufacturer, sequence of dispensing each dose, prescribing doctor or hospital.

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